

# LMOL report for 2017 July 19 operations

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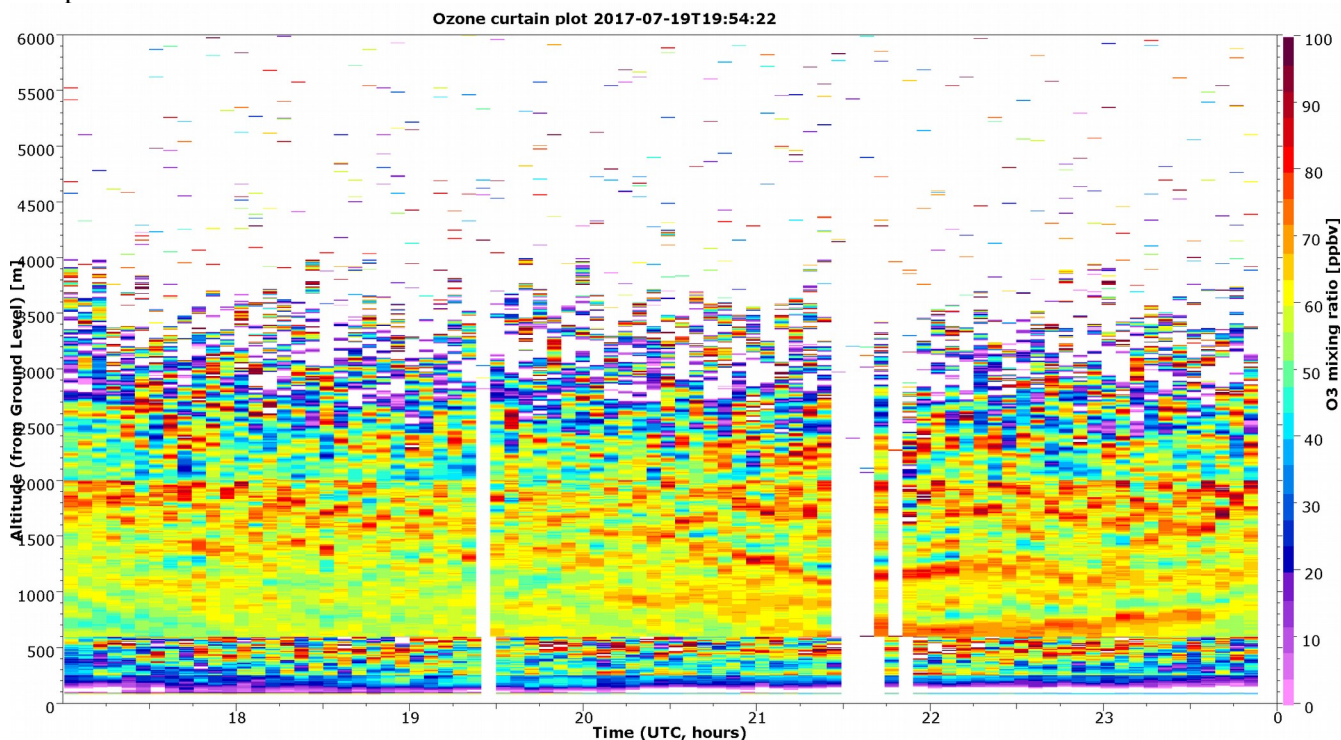
**Sonde operator:** Travis Knepp

## Lidar operations

The lidar performed nominally for the entire time period: a near full coverage has been done between 17:00 to ~00h00 UT (on July 20). (i.e. 13h-20h local time). Seagulls passage above the lidar led to the loss of a few minutes of data due to shutter closing.

The first quick look is below.

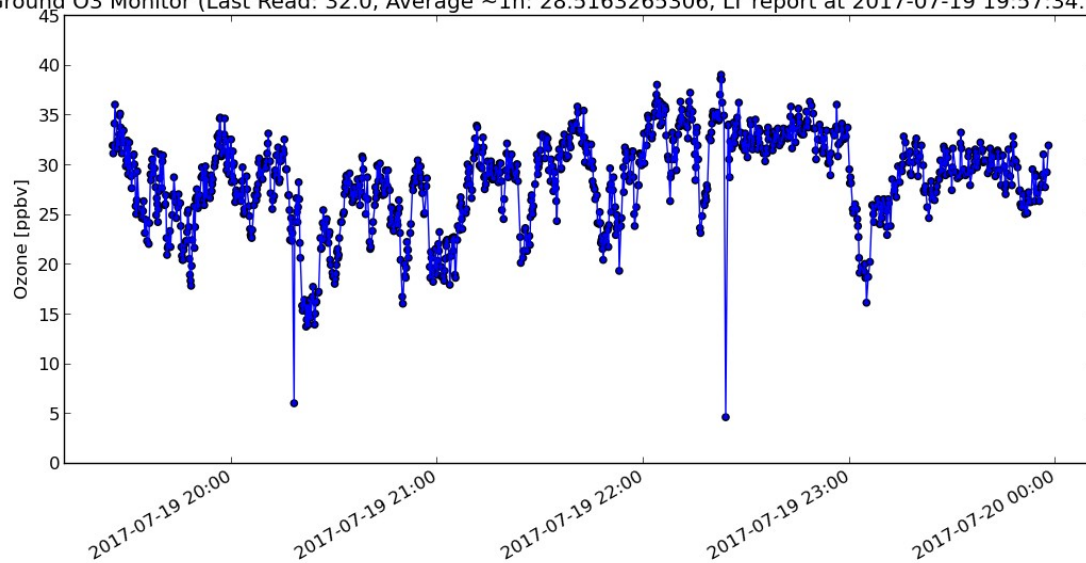
**This is an UNOFFICIAL and PRELIMINARY data plot, extreme values, especially at high altitude and low altitude are not to be believed, other problems may have occurred, the absolute values are very likely to change.** The sonde temperature/pressure data were not used in the making of this plot.



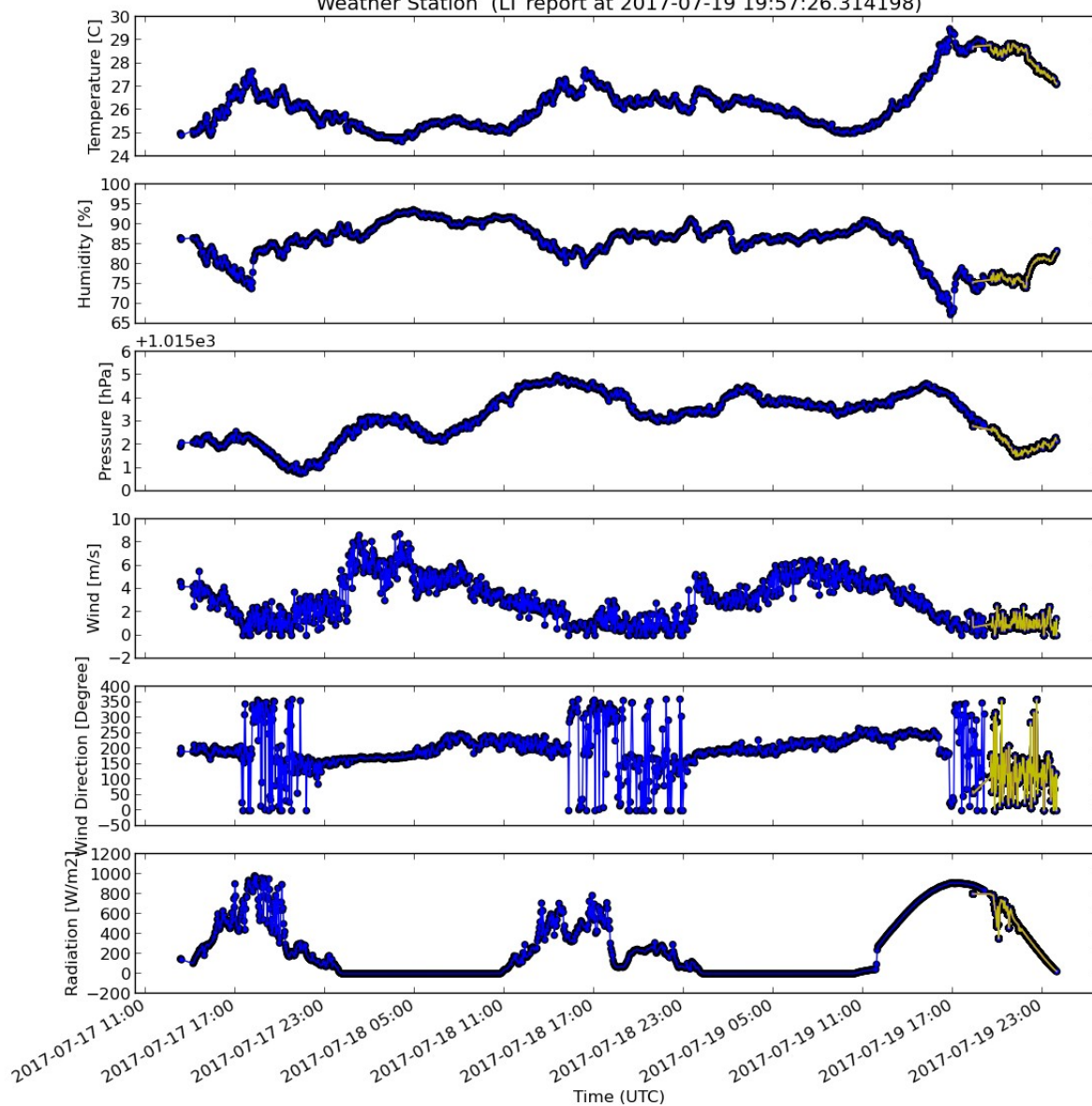
## Weather station and O3 monitor:

The weather station performed nominally. **UNOFFICIAL data plots below**

Ground O3 Monitor (Last Read: 32.0, Average ~1h: 28.5163265306, LT report at 2017-07-19 19:57:34.191014)



Weather Station (LT report at 2017-07-19 19:57:26.314198)



## Other:

- The Davis station is reporting non-official data to internet on <http://www.weatherlink.com/user/lmollarc/> .

### Remarks:

- Very clear day at the CBBT. The clouds were far away from the trailer.

- The Sherpa flew by the island twice to do spirals (the first one was away from the island, the second one was around it)

The NO<sub>2</sub> data have not been acquired due to the instrument malfunction caused by H<sub>2</sub>O condensation.

- O<sub>3</sub> titration events were observed. Over the past few days, they tend to happen near 12h LT. The main hypotheses are titration from ships, or trucks from the tunnel. The truck hypothesis is the least likely.

We thanks the CBBT operators for useful discussions.